

- (a) formulating a solution comprising the recombinant viral vector comprising an expression cassette encoding a heterologous antigen, derived from a virus or a bacteria, in a pharmaceutically acceptable carrier said carrier comprising:
 - (i) PMAL-C16; or
 - (ii) from about 0.1% to 10% of a zwitterionic surfactant; and
- (b) drying the solution to provide a stabilized recombinant viral vector composition in a substantially solid amorphous carrier.

17. The method of claim **16**, wherein the recombinant viral vector is an enveloped virus.

18. The method of claim **16**, wherein the recombinant viral vector is a non-enveloped virus.

19. The method of claim **16**, wherein the virus from which the heterologous antigen is derived is selected from the group consisting of Arenavirus, Arterivirus, Astrovirus, Birnavirus, Bunyavirus, Calicivirus, Coronavirus, Deltavirus, Filovirus, Flavivirus, Hepadnavirus, Herpesvirus, Orthomyxovirus, Papovavirus, Paramyxovirus, Picornavirus, Poxyiridae, Reovirus, Retrovirus, Rhabdovirus, and Togavirus.

20. The method of claim **16**, wherein the bacteria from which the heterologous antigen is derived is selected from the group consisting of *Streptococcus agalactiae*, *Legionella*

pneumophila, *Streptococcus pyogenes*, *Escherichia coli*, *Neisseria gonorrhoeae*, *Neisseria meningitidis*, *Pneumococcus*, *Hemophilis influenzae* B, *Treponema pallidum*, Lyme disease spirochetes, *Pseudomonas aeruginosa*, *Mycobacterium leprae*, *Brucella abortus*, *Mycobacterium tuberculosis*, *Plasmodium falciparum*, *Plasmodium vivax*, *Toxoplasma gondii*, *Trypanosoma rangeli*, *Trypanosoma cruzi*, *Trypanosoma rhodesiense*, *Trypanosoma brucei*, *Schistosoma mansoni*, *Schistosoma japonicum*, *Babesia bovis*, *Elmeria tenella*, *Onchocerca volvulus*, *Leishmania tropica*, *Trichinella spiralis*, *Theileria parva*, *Taenia hydatigena*, *Taenia ovis*, *Taenia saginata*, *Echinococcus granulosus*, *Mesocestoides corti*, *Mycoplasma arthritidis*, *M. hyorhinis*, *M. orale*, *M. arginini*, *Acholeplasma laidlawii*, *M. salivarium*, *M. pneumoniae*, *Candida albicans*, *Cryptococcus neoformans*, *Histoplasma capsulatum*, *Coccidioides immitis*, *Blastomyces dermatitidis*, *Aspergillus fumigatus*, *Penicillium marneffei*, *Bacillus anthracis*, *Bartonella*, *Bordetella pertussis*, *Brucella*, *Chlamydia trachomatis*, *Chlamydia pneumoniae*, *Clostridium botulinum*, *Haemophilus influenzae*, *Helicobacter pylori*, *Klebsiella*, *Legionella*, *Listeria*, *Mycobacterium*, *Mycoplasma*, *Rickettsia*, *Shigella*, *Staphylococcus aureus*, *Streptococcus pneumoniae*, *S. pyogenes*, *Vibrio cholera*, *Yersinia enterocolitica*, and *Yersinia pestis*.

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